20030723.qrp v02_n990.qrl.20030723

Date: Wed, 23 Jul 2003 19:03:07 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2990

QRP-L Digest 2990

Topics covered in this issue include:

  1) [154707] RE: Load coil wire
     by Mark Schoonover <schoon@amgt.com>
  2) [154708] Re: August QST Article: RADIALS
     by "Lawrence Makoski" <Makos327@worldnet.att.net>
  3) [154709] FT: Sharp Zarus PDA (ZR 3000)
     by "Bill Linn" <blinn@smgazette.com>
  4) [154710] OT: Ft. Tuthill Personal Plans
     by Brian Short <bshort4@cox.net>
  5) [154711] Re: Palm or Pocket PC?
     by "Dave Ek" <ekdave@earthlink.net>
  6) [154712] Time for meeting QRPers at Ft. Tuthill?
     by "Doug Hendricks" <ki6ds@dpol.net>
  7) [154713] Re: LDG Auto tuner compatible antenna ?
     by Dave Fouchey <dafouchey@comcast.net>
  8) [154714] Re: Palm or Pocket PC?
     by K7VO <k7vo@earthlink.net>
  9) [154715] QRP Workbench
     by Monty N5ESE <n5ese@io.com>
 10) [154716] Re: Palm or Pocket PC?
     by "Thor, N9IK" <n9ik@thorlind.com>
 11) [154717] FORT TUTHILL is IMMINENT
     by "John Stevens" <jwsteven@concentric.net>
 12) [154718] PIC Elmer Series?
     by "Brian P. Mileshosky" <n5zgt@swcp.com>
 13) [154719] OT: Mini-PC, current model and technology
     by K7VO <k7vo@earthlink.net>
 14) [154720] My New K1 and Antenna Adventures--Part 2
     by "Andy Palm" <acpalm@concentric.net>
 15) [154721] NOGA QRP Club CW Net Report for 23-JUL-2003
     by "Mike Boatright" <ko4wx@mindspring.com>
 16) [154722] Re: New Test Instrument (Peak LCR)
     by "E. Roswell" <eroswell@monmouth.com>
 17) [154723] Re: PIC Elmer Series?
     by "Lee Mairs" <lmairs@direcway.com>
 18) [154724] RSGB antenna books
     by ARDUJENSKI@aol.com
 19) [154725] Re: QRP Workbench

    by William R Colbert <w5xe@juno.com>
20) [154726] Re: PIC Elmer Series?
    by "Bill Linn" <blinn@smgazette.com>
21) [154727] Re: R/C controlled vehicles
    by "Tom Sevart" <n2uhc@mobil1.net>
22) [154728] RE: PIC Elmer Series?
    by Mark Schoonover <schoon@amgt.com>
23) [154729] (Mr.) Elmer PIC
    by Bruce Rattray <rattray@gpfn.sk.ca>
24) [154730] FS Items
    by "Bill Pierrard" <k5jhp@flash.net>
25) [154731] Re: PIC Elmer Series?
    by "Bill Jones" <kd7s@psnw.com>
26) [154732] RE: PIC Elmer Series? [QMT]
    by Chuck Carpenter <w5usj@9plus.net>
27) [154733] The "QRP-Canada RUN WITH RAC" reminder.
    by Bruce Rattray <rattray@gpfn.sk.ca>
28) [154734] Re: RSGB antenna books
    by William R Colbert <w5xe@juno.com>
29) [154735] Re: R/C controlled vehicles
    by Dale Botkin <dale@botkin.org>
30) [154736] Mixer balance, part 2
    by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
31) [154737] PSK ON 40
    by hamjoel@juno.com
32) [154738] Re: August QST Article: RADIALS
    by ARDUJENSKI@aol.com
33) [154739] Re: August QST Article: RADIALS
    by Alex <kr1st@amsat.org>
34) [154740] Re: August QST Article: RADIALS
    by "Lee Mairs" <lmairs@direcway.com>
35) [154741] FS: Two, Duracell DR-123DG NiMH packs
    by "Paul Valko" <w8kc@comcast.net>
36) [154742] RE: August QST Article: RADIALS
    by "Lyle Johnson" <wa7gxd@fidalgo.net>
37) [154743] Re: August QST Article: RADIALS
    by "Noyce, Bill" <william.noyce@hp.com>
38) [154744] RE: August QST Article: RADIALS
    by "John L. Sielke" <jsielke@pobox.com>
39) [154745] Re: Mixer balance, part 2
    by "Noyce, Bill" <william.noyce@hp.com>
40) [154746] Field Strength Measurement Technique
    by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
41) [154747] Re: Whining about my Wein Bridge Oscillator
    by Jeff Furman <jfurman@ocs.net>
42) [154748] Re: August QST Article: RADIALS
    by Bruce Muscolino <w6toy@erols.com>
43) [154749] RE: August QST Article: RADIALS

    by "Lyle Johnson" <wa7gxd@fidalgo.net>
 44) [154750] Re: FORT TUTHILL is IMMINENT
    by Brian Short <bshort4@cox.net>
 45) [154751] Re: R/C controlled vehicles
    by Bruce Muscolino <w6toy@erols.com>
 46) [154752] Re: PIC Elmer Series?
    by John R Kirby <n3aaz-qrp@juno.com>
 47) [154753] 38 Special -warble
    by Marv Fagenson <k6hcj@juno.com>
 48) [154754] Ten Tec Scout 555
    by Marv Fagenson <k6hcj@juno.com>
 49) [154755] Re: PIC Elmer Series?
    by Lee Boulineau <n4mvl@yahoo.com>

Date: Tue, 22 Jul 2003 14:48:13 -0700
From: Mark Schoonover <schoon@amgt.com>
To: "'hottell@gulftel.com'" <hottell@gulftel.com>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154707] RE: Load coil wire
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F6FC2@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

I prefer copper tubing, the kind use in automatic icemakers, but that could
be impractical....

.mark

|> -----Original Message-----
|> From: Dave Hottell [mailto:hottell@gulftel.com]
|> Sent: Tuesday, July 22, 2003 2:32 PM
|> To: Low Power Amateur Radio Discussion
|> Subject: Load coil wire
|>
|>
|> Folks,
|>
|> Getting ready to wind a couple of loading coils for an
|> antenna. Wondering
|> if the type of wire used makes much difference. Seems that
|> the insulation
|> of speaker wire is lossy when used as transmission line and
|> wondering if
|> the same holds true for inductors. Does the type insulation
|> on the wire

|> have any effect?
|>
|> Anyone have any experience they would want to share on this?
|>
|> 73 de Dave
|> ab9ca/4
|>
|>

Date: Tue, 22 Jul 2003 18:00:00 -0400
From: "Lawrence Makoski" <Makos327@worldnet.att.net>
To: <ARDUJENSKI@aol.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154708] Re: August QST Article: RADIALS
Message-ID: <009801c3509c$995af0a0$d9b4590c@larrysahyqy001>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

With my Butternut HF9V, I have fifteen 16ft radials and I also connected
to a nearby chainlink fence which runs the perimeter of the yard.

73 de Larry W2LJ

W2LJ@arrl.net
http://www.qsl.net/w2lj

ARRL Lifemember QRP ARCI #4488   NJQRP #47
FISTS #1469 QRP-L #778   FP #612 QRPp-I #759
ARS #1528
----- Original Message -----
From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, July 22, 2003 9:38 AM
Subject: August QST Article: RADIALS

> I read the article with great interest and still a bit confused. there
are
> several articles published that discuss OPTIMIZING radials for
performance. If I
> remember correctly, posts on this reflector discussed that OPTIMIZED
radial
> system was about 12-16 1/8w/ ground radials.

>
> Some thoughts expressed in the past has stated that radials need to be
not
> longer than the vertical radiator's height.
>
> MOXON in his book HF ANTENNAS FOR ALL LOCATIONS on page 43 under topic
GROUND
> PLANE ANTENNAS has another perspective on number and length of
radials.
>
> Ralph Holland VK1BRH has a paper discussing use of about 4 elevated
radials
> (about 0.05wl) in the range of 0.1-0.15 wl
> http://www.arising.com.au/people/Holland/Ralph/index.htm
>
> Although I have tried about all the methods I have compromised and use
12
> 16ft radials for 40-10m. I am sure actual ground conditions and QTH
location will
> have a variable affect but I was wondering what you folks subscribe to
in the
> way of radials?
>
> Alan KB7MBI in Woodinville, WA
> FISTS 5702 / ARS / Proud member of ARRL
> ___ ___ . . .   . . . ___ ___   DIT DIT
>

Date: Tue, 22 Jul 2003 17:22:12 -0700
From: "Bill Linn" <blinn@smgazette.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154709] FT: Sharp Zarus PDA (ZR 3000)
Message-ID: <005401c350b0$772cd980$9c70ef42@wa7tqk>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Will trade for QRP gear...

Contact off the list please.

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Tue, 22 Jul 2003 19:45:38 -0400
From: Brian Short <bshort4@cox.net>
To: Low Discussion <qrp-l@Lehigh.EDU>
Subject: [154710] OT: Ft. Tuthill Personal Plans
Message-ID: <98DF8264-BC9E-11D7-B425-00306543B616@cox.net>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

I have been packing stuff and cleaning the shack for
a week already and I'm still not ready to go.

It is unlikely that I will have an opportunity to attend
the "QRP" activities because I am bringing a trailer
load of older PCs and other stuff that I will attempt to
sell or otherwise make disappear.

Probably about all that I'll find time for is a trip to Bookman's
Used Book Store to browse, check the Internet Terminals
and have coffee. I will probably only get time to socialize
with potential buyers and tire kickers. So, stop by my selling
sites at RK-19 and buy something!

Thank god we in the valley (Phoenix) finally got some
rain! I suspect that rain at some time over the weekend is
almost a certainty in Flagstaff. So, I am going to buy more
bungee cords and maybe an extra tarp.

--
See my web page: http://www.k7on.com

Date: Tue, 22 Jul 2003 19:07:05 -0600
From: "Dave Ek" <ekdave@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154711] Re: Palm or Pocket PC?
Message-ID: <003701c350b6$bcd23ab0$f53c4bab@NORTHROPJ6SJ50>
MIME-Version: 1.0
Content-Type: text/plain;

charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Doc,

Palms and Pocket PCs are really quite different in terms of power and applications. Pocket PCs come with versions of some of the Microsoft Office applications and can also run many other fairly complex applications. They are also typically higher-powered, with faster processors and more RAM. On the other hand, Palm PDAs are generally a bit lighter weight in terms of cost, power, and complexity of applications. While Pocket PCs try to be mini PCs, Palms tend to be more like glorified planners (that also can run other software, like games and other things).

I have a Pocket PC at work (a Compaq Ipaq), and I can connect a modem or network device and surf the web, read Word documents, check email, etc. Although there's definitely a "cool" factor associated with it, my own opinion is that it's too complicated to be useful as a handheld assistant, and it's not easy enough to use to be a notebook computer replacement. It's way overpowered as simply an electronic planner.

I also own a Palm m100 and a couple Handspring Visors. They were much less expensive than the Pocket PC (under $100 versus $400 or $500 for the Pocket PC), and are certainly less powerful, but they do the job they were designed for very well (planner, address book, notepad, etc). Granted, mine are monochrome, not color, but there's very little value added in my opinion by paying three times the price for color. Sure, you can view photos and movie clips on these things, but is that really useful? Maybe for specialized applications, but not for me.

Another thing I like about my low-end Palms is that they run on 2 AAA alkalines, and they last a long time (many weeks). I'm not a slave to a charging cradle, and I don't have to constantly worry about whether I have enough charge left (like with cell phones, for example).

Now, I confess that my original criteria for purchasing a handheld were (a) cost, and (b) how readily I could develop software for it without purchasing an expensive development environment. Software development may not be a big criterion for you, but one byproduct is that much freeware and shareware is available for the Palm. My experience is that not as much can be found for the Pocket PC, but others may disagree. But it's easy to find freeware for the Palm.

(Personal Plug) If you're interested in contesting from the field, I've written a free Palm contest logger named GOLog that has been very favorably received by those who've tried it. You can plug an inexpensive folding keyboard in to your Palm for data entry, or you can use the stylus and the Grafitti language and plug in another of my designs, the Serial CW Sender,

and connect it to your CW rig to handle all the contest keying while you use GOLog for logging. You can see details of this arrangement at

http://home.earthlink.net/~golog

My opinion is that the lower-end Palms that run on Alkalines (Iv'e also used rechargeable NiMH batteries) are eminently suited to use in the field, due to their long battery life and easy battery replacement.

These are my opinions only. Others will have different (and certainly valid) opinions.

73 de Dave NK0E

Date: Tue, 22 Jul 2003 18:31:34 -0700
From: "Doug Hendricks" <ki6ds@dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [154712] Time for meeting QRPers at Ft. Tuthill?
Message-ID: <0a0701c350ba$2749e840$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Whoa, Brian, you will have tons of time to socialize with the QRP gang. We are located at the group campground, on the other side of the fence west of the flea market. You can't miss us. We are the ones with the big smiles on our faces. When? Why after the flea market closes down. Come on over and say hi to the gang. Hope to see you there.

You might not make the forums, but be sure to stop by the qrp tent on the sw corner of the flea market. We've been there for the past umteen years or so. Look for bald heads and big waistlines. Ooops, that describes about 90% of the guys there. Just look for us, ok?? 72, Doug

---

Date: Tue, 22 Jul 2003 22:20:14 -0400
From: Dave Fouchey <dafouchey@comcast.net>
To: kc8aon@juno.com,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154713] Re: LDG Auto tuner compatible antenna ?
Message-ID: <5.2.1.1.2.20030722221638.00a840e0@mail.comcast.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Rich, I use a 40 meter dipole with mine, seems to work fairly well on all bands with the normal caveats of you get what you pay for. Not terribly efficient on 80 or 160 and very limited in what portions of 160 it will tune, does a better job on 80, but still has trouble in some spots. But for a limited space antenna it does pretty good.

As many have said TANSTAAFL, There Ain't No Such Thing As A Free Lunch!

Dave
WA4EMR

At 08:19 PM 4/16/03 -0400, Rick McKee wrote:
>Gang,
> A close friend of mine recently purchased an LDG AT11MP auto tuner. He
>is presently using a G5RV antenna but is unable to tune all the bands he
>wants with it especially 75/80 meters. Does any of the antenna gurus out
>there know of a particular type of antenna that works well on all bands
>or almost all bands with this particular tuner ? He is pretty much
>limited to an antenna the size of the G5RV or smaller, and I know this is
>a lot to expect, so what are you guys using with your LDG's ? Windoms ?
>Trap dipoles ? Anything ? Trade it for a good manual tuner ? Looking
>for ideas to help him out ! And, I'm trying to convert him to QRP, so
>this is not off topic.....
>
>   72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
>SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
>   Power is for punks ! QRP is for the confident !
>   QRP-L #2112, FPqrp #33, AR QRP #269
>   "A clear conscience is most likely the result of a poor
>memory"
>
>
>_____
>The best thing to hit the internet in years - Juno SpeedBand!
>Surf the web up to FIVE TIMES FASTER!
>Only $14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 22 Jul 2003 19:43:02 -0700
From: K7VO <k7vo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154714] Re: Palm or Pocket PC?

Message-ID: <20030722194302.1e419a6d.k7vo@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi, everyone,

I am going to be evil and suggest a third alternative: a full-blown PC the size of a paperback book. Several have come out over the years, the best known being the Toshiba Libretto series, but IBM and Casio, among others, have put out similar if less successful products. The newest Libretto, the L5, is just a normal sized subnotebook, so it doesn't qualify. (See http://www.dynamism.com if you're curious about it anyway.) However, older versions with processor speeds up to 266MHz are readily available on the used market, notably eBay, at very reasonable prices. I paid just over $300 for the Libretto SS1010 (233MHz, 96MB RAM, 2.1GB HDD) that I am writing this on in an eBay auction last year. I liked it well enough to pick up a second one.

While most of the older Libretti are too slow to run Windows XP well, they are tolerable with Windows 2000 and downright pleasant to use with a current Linux distribution if you know which apps to choose and don't run KDE.

As a ham I'm sure you can see the possibilities. Any software for digital communications, logging, satellite tracking, you name it... that you can run at home you can run on a mini PC. My portable PSK31 station is my Libretto running gpsk under RedHat Linux, a RigBlaster Nomic, and a Mizuho MX-14S 20m HT. That is a fully battery operated station weighing less than five pounds total.

The obvious risk is that you are using an older piece of hardware with no warranty. I think I am waiting for someone (Toshiba, preferably) to come up with something this small again with a fast Crusoe processor. In the meanwhile I have two SS1010s, one with Linux and one with Win2K.

Details on different models are at: http://www.silverace.com/libretto/ There is also a Librettos (note the plural) group on Yahoo Groups! run by a ham. I don't recommend any model earlier than a Libretto 100CT (166MHz, 64MB max RAM), and prefer the FF1100, SS1010, and SS1000 models. The little bit of extra RAM makes a big difference.

It's not just processor speed or RAM. Units before the 100CT did not have a mic. input or speaker output, making them unsuitable for modern sound card driven digital communication without modification or an additional device. Heck, the 20CTA and 30CT (circa 1995) didn't even have a sound card.

Call it QRP computing if you like :)

72/73,
Caity
K7VO

Date: Tue, 22 Jul 2003 21:56:27 -0500
From: Monty N5ESE <n5ese@io.com>
To: AQRP@yahoogroups.com, qrp-l@Lehigh.edu
Subject: [154715] QRP Workbench
Message-ID: <5.2.1.1.1.20030722214748.00b8bcc8@webmail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

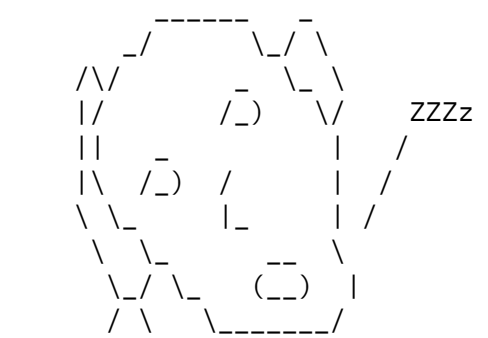
For those, like myself, who have to live with non-hams that just don't seem to have the same appreciation for the chaotic zen beauty of the kitchen table covered with homebrew parts, I offer this little Saturday project:

http://www.io.com/~n5fc/qrp_workbench.htm

Enjoy!
monty N5ESE

'Not all Texans are crazy ... some are just plain LOCO ...'
(and you know the one I'm talking about ;-)

Monty Northrup, N5ESE (ex-N5FC)
Austin, Texas
e-mail: n5ese@io.com
web page (ham): http://www.dit-dididit-dit.com
web page (home): http://www.io.com/~maddog



Date: Tue, 22 Jul 2003 22:01:58 -0500
From: "Thor, N9IK" <n9ik@thorlind.com>
To: qrp-l@Lehigh.EDU
Subject: [154716] Re: Palm or Pocket PC?
Message-ID: <5.2.1.1.0.20030722214503.00a28cb0@mail.thorlind.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I've had both types - a Compaq pocket PC (Pre iPaq, but I forget the model) and a few different Palm models, beginning with the original Palm Pilot. I'm now using a Palm m515. My only gripe is that I can't swap out batteries or use alkaline, etc. To get additional time between charges out in the field you'd have to take along an external battery pack (or stuff a generator in your back pack, or drag along a very looooong extension cord!). There are plenty of options to choose from - it all depends on why you want it and what you expect it to do for you.

And don't be afraid to buy one on eBay; a while back I bought a used Palm IIIc that way for one of my teenagers, and was quite pleased with it - all the original packaging, etc. Of course, he promptly lost it, but that's another story.

- Thor, N9IK

Date: Tue, 22 Jul 2003 20:47:44 -0700
From: "John Stevens" <jwsteven@concentric.net>
To: <qrp-l@lehigh.edu>
Subject: [154717] FORT TUTHILL is IMMINENT
Message-ID: <004301c350cd$2dac7320$0201a8c0@k5js.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Ft. Tuthill QRP HAMFEST and Az State ARRL Convention is THIS coming weekend! You still have time to make those plans to get here! If nothing else has piqued your interest in Ft. Tuthill, the following information about another of our speakers and his presentations should do it!!

We are delighted to introduce Ron Sparks, AG5RS, as our guest to speak in TWO back-to-back sessions on How to Get Started with Antenna Modeling and

Modeling Stealth Antennas. If you missed these presentations at the ARRL National Convention in Arlington, TX, now is your chance to learn how to get started designing and trying out those antennas before you put them up for their final tweaking.

"Ron's fascination with electricity began at about age 2 when he poked about at everything electrical he could reach. This love continues unabated and it has always been a focus for him. He tried to become a ham in the early 60's, but his family did not have the time or money to get him all the way from West Texas to the FCC exam office in Fort Worth. So, he just persisted in a Receive Only mode for about 30 years. During that time (in 1974) he graduated from Texas A & M University in Electrical Engineering. Sometime shortly thereafter he met and married his XYL and they have raised two lovely daughters together. They are still happily married and love to travel together. She actually encourages him to "play radio". After graduation he ended up in the energy business and spent 25 years making theory into practical applications on projects. This gave him experience in all phases of worldwide energy development and production as well as many critical, ancillary activities ranging from emergency planning, to water treatment, to electronics.

He has professional certifications which include Registered Professional Engineer, Certified Safety Professional, and Registered Environmental Manager. He currently owns his own global management consulting and electronics project business, Sparks Technical Management Services, Inc. If there is any work more fun than doing electronics projects for a job he says he cannot imagine what it would be."

Late Breaking News at <http://www.extremezone.com/~nk7m/tut03.htm>.

Hope to see you there!!

Date: Tue, 22 Jul 2003 22:04:08 -0600
From: "Brian P. Mileshosky" <n5zgt@swcp.com>
To: <wb8rcr@arrl.net>
Cc: "List QRP-L" <qrp-l@Lehigh.EDU>
Subject: [154718] PIC Elmer Series?
Message-ID: <001901c350cf$790db660$220586cc@hlw11>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Count me in! I have all sorts of things I'd love to build, and I always get the "a PIC will make your design job a whole lot easier..." remark -- but I need to learn about them first.

Let's do it, and thank you for your offer!

72,
Brian, N5ZGT

Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz
ARRL Life Member, NorCal #1700, QRP-L #580, AK/QRP #125
Boy Scouts of America - Eagle Scout - ASM, Troop 409
Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess

Date: Tue, 22 Jul 2003 20:19:36 -0700
From: K7VO <k7vo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154719] OT: Mini-PC, current model and technology
Message-ID: <20030722201936.45048aee.k7vo@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi,

Continuing to deviate from the Pocket PC thread, for those of you who can afford the best, here is the answer for a paperback book sized PC with all the latest technology. Taken from the "Adorable Libretto" website:

The JVC Japan - Interlink MP-XP7310 comes with a 1Ghz Pentium-M processor, 40GB HD, 8.9" wide-screen display, all in a 1kg/2.2lbs package.

The JVC Interlink is a perfect replacement for current Libretto L20-1100 owners as it is approximately the same size as the L100/110 models - updated of course with all of the latest USB 2.0, IEEE 1394, etc. ports and a powerful 1Ghz Pentium-M processor.

Conics, Dynamism, and Japan-Direct can all order and ship worldwide these latest mini-notebooks from Japan.

Just thought some of y'all would be interested.

72,
Caity
K7VO

Date: Wed, 23 Jul 2003 07:01:23 -0500
From: "Andy Palm" <acpalm@concentric.net>
To: <qrp-l@Lehigh.EDU>
Subject: [154720] My New K1 and Antenna Adventures--Part 2
Message-ID: <001301c35112$23d48fa0$a398ee42@andy>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I want to thank Jim, Monty, Gary, and Trevor for their replies to my first message trying the K1's internal ATU with my Norcal Doublet and 85' end-fed wire (as an inverted L). According to Gary, apparently I stumbled onto the "W3EDP" wire, although mine is not a pure version, as I use three quarterwave wires (40, 30, 20). Monty reported some pretty nice DX using the wire, too.

In my original message I reported that I could not get a good match on all four bands (40, 30, 20, and 15) using the K1's ATU with the Norcal Doublet (26 ft legs, inverted V, center 19 ft, ends 10 ft--the "Crappie Antenna"), although I could get a match with the Norcal BLT. Jim and Monty both suggested I try using a 1:1 balun instead of the 4:1 I'd used. I found a website with instructions on building a QRP 1:1 current balun--interestingly, the Monty N5ESE 1:1 Current Balun! See http://www.io.com/~n5fc/balun_1-1.htm. (There's an underscore where the blank is.)

I built this 1:1 balun and BINGO, I can now tune the Norcal Doublet with the K1's internal ATU on all four bands. The worst match is 1.3:1 on 20m, and the tuner seems to try every possble combination, low and high Z before finding it, too. Since I've been having trouble tuning my home station antenna, an inverted V, with my Jupiter internal ATU, I'm now going to switch to a 1:1 balun (QRO version) and see what happens. I think the 4:1 balun transforms the impedance too to low a value for L-type tuners. Thanks, guys!

One last thing. Since now and then I use my Norcal 40A (e.g., for Spartan Sprints), I decided to modify my BLT so the binding post output is

selectable between balanced and unbalanced. Hopefully I will be able to tune the 85' wire with the BLT this way when I'm using a rig without an ATU. I agree with Monty that at the antenna heights I'm using, the 85' wire has the edge over the doublet, so I want to be able to use it no matter what the rig.

Who would have thought that fooling around with bits of wire could be so much fun.

73 ES CUL,
Andy N1KSN

Date: Wed, 23 Jul 2003 09:32:19 -0400
From: "Mike Boatright" <ko4wx@mindspring.com>
To: "NOGA QRP Club" <nogaqrp@mailman.qth.net>
Cc: "Qrp-L" <qrp-l@Lehigh.EDU>
Subject: [154721] NOGA QRP Club CW Net Report for 23-JUL-2003
Message-ID: <NFBBILMKCMIILGKAJMBLGELHCKAA.ko4wx@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

All,

Pretty noisy conditions on 80 last night, due to an abundance of spark gap transmitters (all band, all mode) in the area. Hardly noticable with the K2 DSP Noise Reduction turned on (level 3 of 4), but several complaints about QRN were received. There was also some QSB, probably from absorption as clouds recharged for additional transmissions...

QNI:

AB4GK, John--John, I apologize for calling you Jim, as I had been talking to K9GKB on 2M just immediately prior to the net; 599+ signal, K2 at 5W into 80M loop...gotta love that antenna
(QTH Monroe)

AF4MN, Guy--Light signal and a tad low in frequency, but solid 559 copy; TS520S(?) into 40M Dipole at 5W (QTH Conyers)

K8EAB, Wey--Wey and I had an eyeball QSO on 285 last Thursday! He probably wondered who that maniac was honking the horn at him! 599+ from his K2 at 5W into a 100' Windom at 40'...when I passed my 20wpm code test both the VE

and I swore the guy was on a Carolina Window antenna... (QTH Cumming)

AD4S, Pickett--Forgot where you were from, but I think you have your 756Pro in Lawrenceville, right? Nice 599+ signal, IC756Pro at 5W into doublet...bet he uses his W3EDP for BB...(QTH Lawrenceville?)

NQ4RP/KO4WX, Mike was running K2 at 5W into 80M loop (homebrew differential T tuner) with KDSP2 at C1 NR 3 (QTH Decatur)

NOGA QRP Club CW Net meets at 9:30 Tuesdays (ET) on 3686.40KHz.

72 de Mike, KO4WX

Date: Wed, 23 Jul 2003 10:15:35 -0400
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [154722] Re: New Test Instrument (Peak LCR)
Message-ID: <3F1E9887.A7EDA562@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have their semiconductor tester & it is just as neat. The price for the LCR Meter on their site is 67.23 UK pounds,...translates to US $107.93 at the currency conversion site, FYI.
73, Ed, K2MGM.

Date: Wed, 23 Jul 2003 10:28:16 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154723] Re: PIC Elmer Series?
Message-ID: <092901c35126$a8259bf0$2202a8c0@J4>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'd love to participate as a student in this session/

73 de Lee
km4yy/8

Date: Wed, 23 Jul 2003 10:28:45 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [154724] RSGB antenna books
Message-ID: <5f.3cda3b0d.2c4ff59d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable

I was looking thru the list of books regarding antennas published/sold by=20
RSGB and was wondering if any o fyou have had the opportunity to review the=20
marterial in any of them. For example:

HF Antenna Collection
An invaluable collection of outstanding articles and short pieces which were=
=20
published in Radio Communication magazine during the period 1968-89. Include=
s=20
ingenious designs for single element, beam and miniature antennas, as well=20
providing comprehensive information about feeders, tuners, baluns, testing,=20
modelling, and how to erect your antenna safely.

The Antenna File
The Radio Society of Great Britain produces some of the best works on=20
antennas and this is a collection of that work from the last ten years. This=
 book=20
contains 288 pages of articles drawn from the Radcom magazine and includes:=
=B7 50=20
HF antennas, 14 VHF/UHF/SHF antennas, 3 receiving antennas, 6 articles on ma=
sts=20
and supports, 9 articles on tuning and measuring, 4 on antenna construction,=
=20
5 on design and theory, and 9 Peter Hart antenna reviews.=B7 Every band from=
=20
73kHz to 2.3GHz=B7 Beams, wire antennas, verticals, loops, mobile whips and=20=
the=20
G2AJV ToroidIn fact everything you need to know about antennas and how to ge=
t the=20
best out of them. =20

Antenna Topics
NEW by Pat Hawker, G3VA
If you are interested in antennas this book is a goldmine of information and=
=20
ideas on the subject. Pat Hawker has been writing his "Technical Topics"=20
column in Radcom since 1958 and in this time has produced much excellent wor=

k in=20
this time. This book is a chronological collection of cuttings of Pat's word=
s=20
over the years. Hundreds of areas and subjects are covered and many a good i=
dea=20
is included. Carefully indexed this book is not only a great reference work=20
but also a history of over forty years of antenna design. At 384 pages this=20=
book=20
is excellent value and asset to any amateur interested in antennas.=20

Backyard Antennas
Radio amateurs and short-wave listeners all want to achieve the very best=20
from their HF and VHF equipment. Receivers and transmitters are available to=
=20
professional standards, but very few people have the real estate to erect th=
e sort=20
of antenna used by a commercial radio station.Antenna guru Peter Dodd=20
explains how, by using a variety of simple techniques, it is possible to ach=
ieve very=20
high performance from a compact antenna. Also detailed is how to make an=20
antenna efficient on several bands at once.The book covers end-fed and centr=
e-fed=20
antennas, rotary beams, loops, tuning units, VHF/UHF antennas, antenna and=20
mast construction, transmission lines, and how to estimate and measure the=20
performance of your antenna.Whether you have a house, bungalow or apartment,=
=20
Backyard Antennas will help you find the solution to radiating a good signal=
 on your=20
favourite band. =20

http://www.rsgb.org/shop/acatalog/RSGB_On_Line_Shop_Antennas_37.html

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
___ ___ . . . . . . ___ ___ DIT DIT

Date: Wed, 23 Jul 2003 09:06:06 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [154725] Re: QRP Workbench
Message-ID: <20030723.090611.-279913.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Another great idea - Thanks Monty!

73
Ray
"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M SOC#78
fp #111 ARCI-5784 NCT2R El Paso,(FAR WEST) TEXAS

Date: Wed, 23 Jul 2003 08:20:02 -0700
From: "Bill Linn" <blinn@smgazette.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154726] Re: PIC Elmer Series?
Message-ID: <000a01c3512d$e43a25a0$b070ef42@wa7tqk>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Me too.... (Ground Zero knowledge here about programming.

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Wed, 23 Jul 2003 10:38:15 -0500
From: "Tom Sevart" <n2uhc@mobil1.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154727] Re: R/C controlled vehicles
Message-ID: <001e01c35130$707b1360$c3e6bdd0@system>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Most R/C toys operate on either 27 or 75 MHZ range. You might want to see
if the transmitter is sending the correct signal for reverse. Find the
frequency with a frequency counter and listen in on a scanner.

Or, it could just be a mechanical problem.

Tom Sevart N2UHC
Frontenac, KS

http://www.geocities.com/n2uhc

Date: Wed, 23 Jul 2003 08:46:06 -0700
From: Mark Schoonover <schoon@amgt.com>
To: "'Brian P. Mileshosky'" <n5zgt@swcp.com>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154728] RE: PIC Elmer Series?
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F6FC5@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

There should be a Q signal for 'Me Too!' - possibly QMT... Count me in..

|> -----Original Message-----
|> From: Brian P. Mileshosky [mailto:n5zgt@swcp.com]
|> Sent: Tuesday, July 22, 2003 9:04 PM
|> To: Low Power Amateur Radio Discussion
|> Subject: PIC Elmer Series?
|>
|>
|> Count me in! I have all sorts of things I'd love to build,
|> and I always get
|> the "a PIC will make your design job a whole lot easier..."
|> remark -- but I
|> need to learn about them first.
|>
|> Let's do it, and thank you for your offer!
|>
|> 72,
|> Brian, N5ZGT
|>
|> Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz
|> ARRL Life Member, NorCal #1700, QRP-L #580, AK/QRP #125
|> Boy Scouts of America - Eagle Scout - ASM, Troop 409
|> Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess
|>
|>

Date: Wed, 23 Jul 2003 10:12:13 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@LeHigh.EDU>
Subject: [154729] (Mr.) Elmer PIC
Message-ID: <Pine.LNX.4.33.0307231009460.10188-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I would LOVE to be a student for this and thus end one of my frustrations
of "things I'd like to know about"...ready to go eh!?...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Wed, 23 Jul 2003 11:13:22 -0500
From: "Bill Pierrard" <k5jhp@flash.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [154730] FS Items
Message-ID: <004601c35135$57db1d00$69071e43@userun7rdemyt7>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to offer the following QRP items to members
of the list before posting to "other" sites.,

Reply direct, replies to the list will not be answered.

OHR 100 30 mtrs, mint, w/OHR keyer, manual,
shipping in US. $125.00
OHR 100A 40 mtrs, mint, w/OHR keyer, manual
shipping in US $125.00
OHR DD-1 counter/digi dial, mint w/manual,
shipping in US. $ 75.00
MFJ Cub 15 mtrs, excellent, w/manual, shipping
in US $ 75.00
LDG QRP ant tuner, excellent, has factory check

out, w/manual, shipping in US $ 80.00
TenTec ARGO 556 (5watt) QRP Xciever, excellent,
w/ band units for 80,40,30,20,15,10, mic,manual, pwr cord,
noise blanker (installed) ,shipping in US $ 300.00

Single photographs of items if requested.
First e-mail given priority.
Payment by postal MO.
Reply direct, repiles to the list will not be answered.
Thanks,
Bill
k5jhp@flash.net

Date: Wed, 23 Jul 2003 09:13:18 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154731] Re: PIC Elmer Series?
Message-ID: <000e01c35135$5624ba70$856aadcf@RadioRoom>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I tried to teach myself but didn't get too far. So add one more "Me Too" to
the list.
==========
Bill Jones KD7S <><
http://www.psnw.com/~kd7s
Sanger, California
==========

Date: Wed, 23 Jul 2003 11:15:16 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: <qrp-l@lehigh.edu>
Subject: [154732] RE: PIC Elmer Series? [QMT]
Message-ID: <3.0.2.32.20030723111516.00a2ad00@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

That works!

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo http://www.netxqrp.org

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Date: Wed, 23 Jul 2003 10:22:06 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@LeHigh.EDU>
Subject: [154733] The "QRP-Canada RUN WITH RAC" reminder.
Message-ID: <Pine.LNX.4.33.0307231016300.11048-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello everyone!...You still have time to enter the "Run with RAC" contest assuming you operated either a little or a whole lot in the annual RAC Canada Day contest on July 1st...I'm accepting entries until the end of July this year... ;-) ...I have about 3 entries for the 10 categories so far so your chances of receiving a nice certificate are good...
I'll be running this contest again come the RAC Winter contest in December and including 40 mtrs this time for Single Band ops...
...all you have to do is send me a Summary sheet as outlined below...even if you made just 1 contact, you might win a certificate...hihi...tnx all!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

The RAC Contests, which run annually on July 1st (Canada Day) and in December, have proven to be very popular. One of the categories which has enjoyed an increased participation over the last few years has been the QRP category.

The members of the QRP-Canada mailing list have sponsored the QRP plaques for this category for the last 5 years and have just raised the funds for the next 5 years. The plaque goes to the Single Operator who operates on all bands and combines SSB & CW for the highest score.

A number of e-mails have been posted on QRP-Canada promoting a desire to recognize additional QRP categories.

Therefore, QRP-Canada, starting with this year's Canada Day contest, will run a contest in "parallel" with the RAC Summer & Winter events.

All you have to do is operate in the RAC Summer & Winter contests, as you normally would. When each contest is over, just submit a Summary Sheet (example below) within 30 days of the contest ending to:

Bruce Rattray (VE5RC+VE5QRP)
128 Durham Drive
Regina, SK.   S4S 4Z2
Canada

...or e-mail to   rattray@accesscomm.ca

After the scores have been checked, an announcement of the winners in each category will appear on the QRP-Canada mailing list and also in the TCA magazine.

For the first running of "QRP-Canada RUN WITH RAC", there will be no minimum number of entries for any category.

An appropriate Certificate will be sent to the winner of each category.

Here are the 10 categories:

****
- QRP-Canada RUN WITH RAC categories -
****

SOAB - LP - [1 w. output max] - SSB only.
 - single operator, all bands, low power, 1 watt max, SSB.

SOSB - LP - [1 w. output max] - SSB. [20, 15 or 10 mtrs only]
 - single operator, single band, low power, 1 watt max, SSB.

SOAB - LP - [1 w. output max] - CW.
 - single operator, all bands, low power, 1 watt max, CW.

SOSB - LP - [1 w. output max] - CW. [20, 15, or 10 mtrs only]
 - single operator, single band, low power, 1 watt max, CW.

DX stations (non-Canadian & USA) -

SOAB - HP - [5 w. output max] - SSB & CW.
 - single operator, single xmtr, all bands - high power, 5 watts max,
   SSB + CW.

QRP Clubs -

MSAB - HP - [5 w. output max] - SSB & CW.
 - multioperators, single xmtr, all bands, high power, 5 watts max,
   SSB + CW.

****

Summary Sheet example:

```
---------------------------------------------------------------------
           - QRP-CANADA "RUN WITH RAC" CONTEST SUBMISSION -
---------------------------------------------------------------------
Submitted by: (full name & Call)
Operating as: (call or club call)
Address:
City,Province,State:
Country:
Postal Code/Zip:
E-mail address:
Category entered:
---------------------------------------------------------------------
                      - SCORE CALCULATION -
---------------------------------------------------------------------
Canadian Qsos were    : (x10)           =           [excludes RAC qsos]
RAC QSOs were         : (x20)           =
Total DX contacts     : (x2)            =
---------------------------------------------------------------------
Total of ALL QSOs     :       QSOs      =              <--total points.
Total Multipliers     :                 =
---------------------------------------------------------------------
CLAIMED SCORE:                          =                    points.
---------------------------------------------------------------------
Signature:
---------------------------------------------------------------------
```

*** PLEASE SPREAD THE WORD...thank you ***

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Wed, 23 Jul 2003 10:25:25 -0600
From: William R Colbert <w5xe@juno.com>
To: ARDUJENSKI@aol.com, qrp-l@lehigh.edu
Subject: [154734] Re: RSGB antenna books
Message-ID: <20030723.102530.-279913.6.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Alan,

I don't have the Antenna Topics by Pat Hawker
but do have his 3 volumes of Tech Topics and
two volumes of Amateur Radio Techniques
(basically the same as Tech Topics, but from the
RSGB Bulletin and later Radio Communications)
and they are really worth the effort to put them on
your book shelf - that said, I suspect Pat's latest
volume would be the same. I do have Practical
Wire Antennas by John Heyes, G3BDQ, and the
HF Antenna Collection by Erwin David - both well
worth having. I find they complement the Moxon
HF Antennas for All Locations as well as the RSGB
Handbook. In short, all of the publications I have found
from the RSGB are excellent and I would not hesitate
to purchase any even tho I have not seen the Backyard
Antennas or Antenna File.

73
Ray
"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M SOC#78
fp #111 ARCI-5784 NCT2R El Paso,(FAR WEST) TEXAS

Date: Wed, 23 Jul 2003 11:41:44 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: Tom Sevart <n2uhc@mobil1.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154735] Re: R/C controlled vehicles

Message-ID: <Pine.LNX.4.33.0307231135350.2277-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 23 Jul 2003, Tom Sevart wrote:

> Most R/C toys operate on either 27 or 75 MHZ range. You might want to see
> if the transmitter is sending the correct signal for reverse. Find the
> frequency with a frequency counter and listen in on a scanner.

The liklihood of a malfunctioning transmitter is probably not nearly as
great as a blown transistor in the motor's H-bridge driver. You should be
able to pretty easily trace mack the circuit from the motor to four
transistors or MOSFETs in an H-bridge configuration and test/replace them
to find out where the problem is. If you've never seen an H-bridge,
here's a handy URL (there are many more available with a simple Yahoo or
Google search):

http://www.4qdtec.com/bridge.html

73,
Dale - N0XAS
--
It's a thankless job, but I've got a lot of Karma to burn off.
PicoKeyer is available for the Rock-Mite! http://www.hamgadgets.com

---

Date: Wed, 23 Jul 2003 12:46:18 -0400
From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [154736] Mixer balance, part 2
Message-ID: <001301c35139$f0b6bf80$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Had tried to build a double-balanced mixer - the standard
circuit with four matched diodes. Measured how much L.O.
got back out the R.F. port where signals come in. Found
that the "canned" mixers were much better than homebrew.

    Had intended to try matching diodes with more care,
but got diverted trying out a bus-switch mixer instead,
a PI5319A single-pole-double-throw switch from Pericom.
A four-diode ring (driven by trifilar transformers), and this

SPDT switch are functionally equivalent.
    Pericom doesn't say, but what's inside is likely
N-channel FETs that are turned ON and OFF by applying
appropriate gate voltages. Their gates are driven by logic
signals on input pins. These are passive FETs that
can handle signal current in either direction. Since they're
both integrated, ON resistance should be well matched.
Pericom claims matching is within 0.8 ohms.

    But that's not the whole story. Some of the gate drive
leaks into the signal channel. The spec sheet calls it
"charge injection". At ten million switches per second, a
little charge each time causes considerable offset. And
those charge pulses can leak back out the R.F. port,
unbalancing the mixer.
Biased the pole of the switch at half-supply (2.5v DC).
When the L.O. was applied, bias wanted to climb toward
the supply voltage. Added some offset to bring it back
down to 2.5v. Then set up to measure L.O. leaking back
to the R.F. port. About -40dBm. (SBL-1 was -58dBm)
    Then took the offset away, and let it charge pump
from 2.5v up to 4.88v DC. Wow, leakage dropped WAY
down to -78 dBm! No doubt, the mixer's large-signal
handling ability would be poor, biased up this high.
At 4.4 v bias, L.O. balance equaled the SBL-1.
Apart from the digital L.O., this mixer is very similar
to a SBL-1, with the potential for better large-signal
handling.

    Adapting these bus-switches into high-performance
mixers is a neat trick. "Digital" tempts us to replace
tried-and-true analog circuits. For digital mixers, tricky
trifilar toroids may disappear (hellooooooo surface mount).
Am looking forward to new-technology radios.
-Glen VE3DNL

Date: Wed, 23 Jul 2003 17:15:58 GMT
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [154737] PSK ON 40
Message-ID: <20030723.101642.16315.921927@webmail02.lax.untd.com>
Mime-Version: 1.0
Content-Type: text/plain

AROUND 7.070 +- A FEW KHZ THAIR BEES PSK ACTIVITY ... BAN WORKING FOLKS FOR THE LAST COUPLA NITES... LOTS OF QRN...BUT THEN WE GOT THE MOJO ON OUR END.... :-) C U THAIR...

KE1LA JOEL
IN MAINE
FREEZIN

_____
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Date: Wed, 23 Jul 2003 13:38:00 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [154738] Re: August QST Article: RADIALS
Message-ID: <1c6.d00a38a.2c5021f8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

It sure seems that the topic of radials is more smoke and mirrors than a science. Look at how many sources state proper radials based upon a wide variety of sources:
---120 radials 1/4wl plus appears to based upon an old study for AM boraodcast towers
---the mixing of terms of ADEQUATE and OPTIMAL
---you need resonant ground radials
---radials need only be as long as the height of the antenna
---insulated ground radials act just like elevated radials (elevated to what height?)

This appears to be a lot like misinformation propagated on house insulation. After R-19 the benefits of going to R-40 for exampel is hardly perceptable. The reason codes go to R-40 or so is that they know the insulation deteriorates over time due to compression or moisture so calling for R-40 sounds better. Is the same occuring with radial misinformation? Not sure but you can find studies (without qualifications) that anywhere from 1 to 120 radials should be employed. Is this occuring because mathematically many of us (me included) don't have a clue of what is occuring and therefore accept what is in print as gospel truth?

It is no different in folks claiming one antenna is better than anther without defining the parameters for comparison....heck most people have no concept

of the lobe patters and they are comparing apples to oranges.

Back to radials. I feel at this point that previous advice given by DR. MEGACYCLE and the info in MOXON's book noting OPTIMAL radials are about 1/8 wl on lowest band operated and advantages disappear with more than 12 to 16 radials (Hope I am not misinterpreting these guys)

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
___ ___ . . . . . . ___ ___ DIT DIT

Date: Wed, 23 Jul 2003 14:29:17 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154739] Re: August QST Article: RADIALS
Message-ID: <3F1ED3FD.654C1BF3@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

ARDUJENSKI@aol.com wrote:
>
> It sure seems that the topic of radials is more smoke and mirrors than a
> science.

Hi Alan,

I wonder if it has more to do with understanding of more general concepts like RF ground, return path, etc. rather than the "science" of radials itself.

In the mean time, forget radials, a nice patch of chiken wire, with a diameter of twice the antenna height, will do just fine. :-)

73,
--Alex KR1ST

Date: Wed, 23 Jul 2003 14:29:13 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <ARDUJENSKI@aol.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154740] Re: August QST Article: RADIALS
Message-ID: <0ac301c35148$518917a0$2202a8c0@J4>
MIME-Version: 1.0

Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've been thinking about this since the radial thread started. Allen's observations prompt me to ask the question.

Theoretically, isn't the ideal that radials are striving to achieve is a vertical antenna mounted over an infinite plain of copper (or gold)?

If so, than adequate and optimal are meaningless unless some sort of penalty/cost function is also defined. For example, if radials cost $10 each to install, then the optimal number of radials would be that number such that the station performance can better be improved by a $10 expenditure on something else rather than one more radial. In other words the point where marginal improvement equals marginal cost.

Am I missing something here?

73 de Lee
km4yy/8

----- Original Message -----
From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, July 23, 2003 1:38 PM
Subject: Re: August QST Article: RADIALS

> It sure seems that the topic of radials is more smoke and mirrors than a
> science. Look at how many sources state proper radials based upon a wide variety
> of sources:
> ---120 radials 1/4wl plus appears to based upon an old study for AM
> boraodcast towers
> ---the mixing of terms of ADEQUATE and OPTIMAL
> ---you need resonant ground radials
> ---radials need only be as long as the height of the antenna
> ---insulated ground radials act just like elevated radials (elevated to what
> height?)
>
> This appears to be a lot like misinformation propagated on house insulation.
> After R-19 the benefits of going to R-40 for exampel is hardly perceptable.
> The reason codes go to R-40 or so is that they know the insulation

deteriorates
> over time due to compression or moisture so calling for R-40 sounds
better. Is
> the same occuring with radial misinformation? Not sure but you can find
> studies (without qualifications) that anywhere from 1 to 120 radials
should be
> employed. Is this occuring because mathematically many of us (me included)
don't
> have a clue of what is occuring and therefore accept what is in print as
gospel
> truth?
>
> It is no different in folks claiming one antenna is better than anther
> without defining the parameters for comparison....heck most people have no
concept
> of the lobe patters and they are comparing apples to oranges.
>
> Back to radials. I feel at this point that previous advice given by DR.
> MEGACYCLE and the info in MOXON's book noting OPTIMAL radials are about
1/8 wl on
> lowest band operated and advantages disappear with more than 12 to 16
radials
> (Hope I am not misinterpreting these guys)
>
> Alan KB7MBI in Woodinville, WA
> FISTS 5702 / ARS / Proud member of ARRL
> ___ ___ . . . . . . ___ ___ DIT DIT
>

Date: Wed, 23 Jul 2003 14:58:43 -0400
From: "Paul Valko" <w8kc@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154741] FS: Two, Duracell DR-123DG NiMH packs
Message-ID: <005101c3514c$708d2b10$6601a8c0@p4main>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I found two of these while cleaning today. They are still in the original
packed - never opened or used. They have a KMart price tag of $59.00 EACH!

These were for old Motorola MicroTAC cell phones.

Probably useful in some QRP application. I was thinking of putting them on

eBay, but why be greedy?

$10 each or both for $15. I'll pay shipping.

73! =paul= W8KC
Collector of Ten*Tecs and Other Fine Plastics.
Visit the Virtual Ten*Tec Museum at http://mywebpages.comcast.net/w8kc

---

Date: Wed, 23 Jul 2003 12:11:25 -0700
From: "Lyle Johnson" <wa7gxd@fidalgo.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154742] RE: August QST Article: RADIALS
Message-ID: <NEBBKGGNGLGOHDJKFAPHEEJIEKAA.wa7gxd@fidalgo.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Theoretically, isn't the ideal that radials are striving to achieve is a
> vertical antenna mounted over an infinite plain of copper (or gold)?

A 1/4 wave (or shorter) vertical antenna needs a good ground system to act as a mirror to supply the "mising half" of the antenna. If your vertical is 1/2 wave, you don't need the ground system, except to understand what it is doing to your pattern, much as a person using a horizontal antenna is affected by the height above ground.

Jerry Sevick, W2FMI, did extensive testing on radials and verticals and wrote it up in QST back in the early 70's.

See the following QSTs:

1971 - July
1972 - June
1973 - March, December
1974 - March
1978 - April

and a related article on measuring soil conductivity (after all, if you live on a copper plane, in a boat in salt water, or in the Masabe range in Michigan's upper peninsula, you probably don't need much in terms of radials!)

1981 - March

72/73,

Lyle KK7P

Date: Wed, 23 Jul 2003 15:12:35 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [154743] Re: August QST Article: RADIALS
Message-ID:
<6D6463F31027B14FB3B1FB094F2C744703377E1B@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

> If so, than adequate and optimal are meaningless unless some sort of
> penalty/cost function is also defined.=20

Right. As I read the QST article, it was investigating the "optimal"
way of laying out radials given a fixed amount of wire. Should you
use a few long radials, or a larger number of shorter ones? Stated
this way, "optimal" has a reasonably well-defined meaning. Most of
the other variables had only a small effect on how you should lay out
the radials. The graphs also show clearly the diminishing (but never
vanishing) value of adding additional wire...
     -- Bill, AB1AV

Date: Wed, 23 Jul 2003 15:55:01 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [154744] RE: August QST Article: RADIALS
Message-ID: <oprsr39zfan9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

> Theoretically, isn't the ideal that radials are striving to achieve is a
> vertical antenna mounted over an infinite plain of copper (or gold)?

I know I have probably done it wrong, but in some 40+ years messing around, I have tried Vertical antennas, of many shapes, from an old "Gotham" vertical back in 1959, to the GAP vertical (which doesn't really count as it is more of a vertical dipole). I once tried the Butternut Vertical, and buried over 500' of wire radials.....the thing was always much worse than my horizontal (EDZ at that time).

The only time I have ever had a vertical work really well was on the boat. I used a W6MMA coil and the St. Louis Vertical. For ground I connected to the (inboard) engine, which was also bonded to an underwater ground plate. Now THAT really got out, and I have worked a bunch of DX from the middle of Delaware Bay with it.

So maybe, we need to look into moving the hamshack to a houseboat?

John W2AGN

Date: Wed, 23 Jul 2003 15:55:30 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [154745] Re: Mixer balance, part 2
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AFBA@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Glen:

A number of new designs use CMOS switches as mixers,
including KD1JV'x AT Sprint (add my vote to those wishing
to see another run of kits made available!), and the
promised Norcal 30. Some references:

VE3SMA's Spartan Sprint Special, inspiration for KD1JV:
<http://www.arsqrp.com/ars/pages/back_issues/2002_text/0602_text/ss_speci=
al.html>

KD1JV's experiment leading to AT Sprint:
<http://www.qsl.net/kd1jv/dcrx.HTM>=09

(It looks as if Steve has removed the AT Sprint=20
Norcal 30:

http://www.redhotradio.com/NC30.html

I hope to experiment with this style of mixer too.
     -- Bill, AB1AV

Date: Wed, 23 Jul 2003 15:59:36 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: <fpqrp-l@mpna.com>, <qrp-l@Lehigh.EDU>
Cc: "Greg N9GL Lapin (E-mail)" <g.lapin@ieee.org>
Subject: [154746] Field Strength Measurement Technique
Message-ID: <721D3436A7C2B344A301FD4A413C71A9016F35DA@kosh.arrlhq.org>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi, Guys and Gals,

I have posted a draft of an article on how to make field-strength =
measurements using conventional receivers and antennas on my working =
area of the ARRL page:

http://www.arrl.org/~ehare/aria/ARIA_MANUAL_TESTING.html

If any of you have any feedback on the writeup, please let me know. If =
any of you can use the method to do some testing, please send me your =
results. I will be able to use the information in some of our FCC work. =
I can also add you to the ARIA project and keep you up to date on =
refinements.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: http://www.arrl.org/tis

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information about membership, go to http://www.arrl.org/join.html. Your =
contribution can also help support ARRL's ongoing efforts to protect =

Amateur spectrum. Go to =
https://www.arrl.org/forms/development/donations/basic/ to learn more =
about the ways you can support the ARRL programs and activities of most =
importance to you. You can help ARRL protect Amateur Radio for you and =
future generations to enjoy.

> -----Original Message-----
> From: hamjoel@juno.com [mailto:hamjoel@juno.com]
> Sent: Wednesday, July 23, 2003 1:16 PM
> To: fpqrp-l@mpna.com; qrp-l@Lehigh.EDU
> Subject: [fpqrp] PSK ON 40
>=20
>=20
>=20
> AROUND 7.070 +- A FEW KHZ THAIR BEES PSK ACTIVITY ... BAN=20
> WORKING FOLKS FOR THE LAST COUPLA NITES... LOTS OF QRN...BUT=20
> THEN WE GOT THE MOJO ON OUR END.... :-) C U THAIR...
>=20
>=20
> KE1LA JOEL
> IN MAINE
> FREEZIN
>=20
> _____
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> Only $14.95/ month - visit www.juno.com to sign up today!
> -To unsubscribe, mail to majordomo@fpqrp.com, msg:=20
> unsubscribe fpqrp-l -
>=20

Date: Wed, 23 Jul 2003 13:29:10 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: Nick Kennedy <nkennedy@tcainternet.com>, qrp-l@lehigh.edu
Subject: [154747] Re: Whining about my Wein Bridge Oscillator
Message-ID: <Pine.LNX.4.21.0307231314360.28247-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This circuit is a simple wien bridge oscillator, which works on transient
analysis in a spice simulator. these actually work in practice, too. the
agc is just two diodes back to back cutting the gain by increasing the
feedback when the signal across them goes above about 0.5 or 0.6 v. i'm
not aware of a simpler wien bridge circuit without op amps.

```
C1 2 0 .01U
C2 6 2 .01U
C3 8 3 .01U
D1 4 7 D1N4148
D2 7 4 D1N4148
Q1 1 2 3 2N3904 (c b e)
Q2 4 1 5 2N3906 (c b e)
R1 2 0 15K
R2 5 2 75K
R3 3 0 4700
R4 4 3 10K
R5 4 6 75K
R6 4 6 15K
R7 8 7 150K
V1 5 0 9 (+ - 9v batt.)
```

73, Jeff AD6MX

Date: Wed, 23 Jul 2003 17:41:27 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: wa7gxd@fidalgo.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154748] Re: August QST Article: RADIALS
Message-ID: <3F1F0107.C71F971B@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I''m not sure you have it right. Antennas of 1/4, 3/4, etc. wavelength need a good ground. Antennas of 1/2, and 1 wavelength need a less complete ground system. The cutoffs are not 1/4 and 1/2 wavelength.

73

Date: Wed, 23 Jul 2003 14:53:34 -0700
From: "Lyle Johnson" <wa7gxd@fidalgo.net>
To: "Bruce Muscolino" <w6toy@erols.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154749] RE: August QST Article: RADIALS

Message-ID: <NEBBKGGNGLGOHDJKFAPHMEJOEKAA.wa7gxd@fidalgo.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="us-ascii"
Content-Transfer-Encoding: 7bit

Bruce,

> I''m not sure you have it right. Antennas of 1/4, 3/4, etc. wavelength
> need a good ground. Antennas of 1/2, and 1 wavelength need a less
> complete ground system. The cutoffs are not 1/4 and 1/2 wavelength.

You are correct.

-Lyle

Date: Wed, 23 Jul 2003 16:55:57 -0400
From: Brian Short <bshort4@cox.net>
To: Low Discussion <qrp-l@Lehigh.EDU>
Subject: [154750] Re: FORT TUTHILL is IMMINENT
Message-ID: <0EF0D336-BD50-11D7-83DD-00306543B616@cox.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v552)
Content-Transfer-Encoding: 7bit

On Tuesday, July 22, 2003, at 11:47 PM, John Stevens wrote:
> We are delighted to introduce Ron Sparks, AG5RS, as our guest to speak
> in
> TWO back-to-back sessions on How to Get Started with Antenna Modeling
> and
> Modeling Stealth Antennas. If you missed these presentations at the
> ARRL
> National Convention in Arlington, TX, now is your chance to learn how
> to get
> started designing and trying out those antennas before you put them up
> for
> their final tweaking.

John and others,

This seems like great information for anybody, "QRP" or otherwise,
especially
the getting started part.

Personally, I have played with EZNEC, YO (yagi optimizer), and NEC wires

to the extent that one can just sit down and with a little common sense and
hacking accomplish something. Knowing a little about what I am doing would
be great!

Anyway, I would like to request that someone involved with antenna modeling
more than myself contact W7YRV, Roy, at the hamfest. Roy has asked me to
assist in modeling some of his many wire antenna arrays, but I doubt I have
been as helpful as he would like.

Roy builds very inexpensive towers of 100 foot plus heights out of about
nothing and then pulls them up by hand. He has put up more 100' towers
than anybody else I know :)

Anyway, he has built numerous very elaborate wire arrays over the years,
but complicating factors have always confounded me. For example, some
of the arrays have multiple antennas in various compass directions, but
the arrays co-occupy common space. In some cases there have been a
large number of support towers with (unbroken) guy wires of various
lengths.

Presently, there is a feedpoint arrangement that I am most confused by,
see: http://www.k7on.com/w7yrv/rhombics.htm at the bottom.

I think I may shut down my swap site for the one session, but still, Roy
could really use some help.
--
See my web page: http://www.k7on.com

Date: Wed, 23 Jul 2003 17:57:07 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: dale@botkin.org
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154751] Re: R/C controlled vehicles
Message-ID: <3F1F04B3.1FB89D41@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Most R/C equipment operates at 27 or 70 mHz. There are exceptions to
this rule at the 70 mHz region. Aircraft operate in the 72 mHz region,

while cars operate at 75 mHz. Amateurs may operate R/C in the 50 mHz band. You should use what your vehicle requires.

There are two approaches to speed control, electronic and servo. Electronic speed controls are very compact, and probably beyond the capabilities of most in this group to repair. They are also fairly inexpensive. Look at "Hobby People" for examples.

73

Date: Wed, 23 Jul 2003 18:13:42 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [154752] Re: PIC Elmer Series?
Message-ID: <20030723.181347.-240331.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

May I join?

I have zero PIC hardware and zero PIC software.

I will need a list of material.

Thanks,

John
N3AAZ
OOTC
FM 19 xa

_____
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Date: Wed, 23 Jul 2003 15:20:18 -0700
From: Marv Fagenson <k6hcj@juno.com>
To: qrp-l@Lehigh.edu
Subject: [154753] 38 Special -warble
Message-ID: <20030723.152019.-1608819.1.k6hcj@juno.com>
MIME-Version: 1.0

Content-Type: text/plain
Content-Transfer-Encoding: 7bit

My 38 special has developed a "warble" on TX and RX. I have changed the pot in the past and it has been OK for a while. Then the cycle begins again.
Anyone have a permanent fix for this problem, please?
Marv Fagenson
k6hcj@Juno.com

_____
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Date: Wed, 23 Jul 2003 15:17:51 -0700
From: Marv Fagenson <k6hcj@juno.com>
To: qrp-l@Lehigh.edu
Subject: [154754] Ten Tec Scout 555
Message-ID: <20030723.152018.-1608819.0.k6hcj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Ten Tec Scout model 555 (0-50 watts) QRP
Mint Condition. 160-12 meter band modules. No 10 meter module. Noise blanker, hand Mic, DC cable, and manual. $375 OBO + shipping. Call K6AWC, Glenn, directly at 818-989-3253 or email to BrowerG-R@juno.com

Marv Fagenson
k6hcj@Juno.com

_____
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Date: Wed, 23 Jul 2003 15:37:13 -0700 (PDT)
From: Lee Boulineau <n4mvl@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154755] Re: PIC Elmer Series?
Message-ID: <20030723223713.87138.qmail@web21208.mail.yahoo.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I would participate - I have some PIC experience, but
not enough!! Also. Steve "the Melt Solder Guy" has me
interested in the Atmel processors also!!

Lee N4MVL

_____
Do you Yahoo!?
Yahoo! SiteBuilder - Free, easy-to-use web site design software
http://sitebuilder.yahoo.com

End of QRP-L Digest 2990
****